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In re Application of

Application Number

07/943852

Filed

9-11-92

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This collection of information is required by 37 CFR 1.11 and 1.14. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. BRING TO: File Information Unit, Room 2E04, 2900 Crystal Drive, Arlington, Virginia.

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US007070775B2

#18

(12) **United States Patent**  
**Le et al.**(10) **Patent No.:** **US 7,070,775 B2**  
(45) **Date of Patent:** **\*Jul. 4, 2006**(54) **RECOMBINANT A2-SPECIFIC TNF $\alpha$**   
**SPECIFIC ANTIBODIES**(56) **References Cited**(75) **Inventors:** **Junming Le**, Jackson Heights, NY (US); **Jan Vilcek**, New York, NY (US); **Peter Daddona**, Menlo Park, CA (US); **John Ghrayeb**, Thorndale, PA (US); **David Knight**, Berwyn, PA (US); **Scott Siegel**, Westborough, MA (US)(73) **Assignees:** **New York University**, New York, NY (US); **Centocor, Inc.**, Malvern, PA (US)(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 773 days.

This patent is subject to a terminal disclaimer.

(21) **Appl. No.:** **10/198,845**(22) **Filed:** **Jul. 18, 2002**(65) **Prior Publication Data**

US 2003/0144484 A1 Jul. 31, 2003

**Related U.S. Application Data**

(60) Continuation of application No. 09/756,398, filed on Jan. 8, 2001, now Pat. No. 6,835,823, which is a division of application No. 09/133,119, filed on Aug. 12, 1998, now Pat. No. 6,277,969, which is a division of application No. 08/570,674, filed on Dec. 11, 1995, now abandoned, which is a continuation-in-part of application No. 08/324,799, filed on Oct. 18, 1994, now Pat. No. 5,698,195, which is a continuation-in-part of application No. 08/192,102, filed on Feb. 4, 1994, now Pat. No. 5,656,272, and a continuation-in-part of application No. 08/192,861, filed on Feb. 4, 1994, now Pat. No. 5,919,452, and a continuation-in-part of application No. 08/192,093, filed on Feb. 4, 1994, now Pat. No. 6,284,471, which is a continuation-in-part of application No. 08/010,406, filed on Jan. 29, 1993, now abandoned, which is a continuation-in-part of application No. 08/013,413, filed on Feb. 2, 1993, now abandoned, which is a continuation-in-part of application No. 07/943,852, filed on Sep. 11, 1992, now abandoned, which is a continuation-in-part of application No. 07/853,606, filed on Mar. 18, 1992, now abandoned, which is a continuation-in-part of application No. 07/670,827, filed on Mar. 18, 1991, now abandoned.

(51) **Int. Cl.**  
**A61K 39/395** (2006.01)  
**C07K 16/28** (2006.01)(52) **U.S. Cl.** ..... **424/145.1; 424/130.1; 424/133.1; 424/141.1; 530/387.1; 530/387.3; 530/388.1; 530/388.23**(58) **Field of Classification Search** ..... **464/130.1, 464/145.1; 530/387.1, 388.23**  
See application file for complete search history.**U.S. PATENT DOCUMENTS**

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*Primary Examiner*—Phillip Gambel(74) *Attorney, Agent, or Firm*—Hamilton, Brook, Smith & Reynolds, P.C.(57) **ABSTRACT**Anti-TNF antibodies, fragments and regions thereof which are specific for human tumor necrosis factor- $\alpha$  (TNF $\alpha$ ) and are useful in vivo diagnosis and therapy of a number of TNF $\alpha$ -mediated pathologies and conditions, as well as polynucleotides coding for murine and chimeric antibodies, methods of producing the antibody, methods of use of the anti-TNF antibody, or fragment, region or derivative thereof, in immunoassays and immunotherapeutic approaches are provided.**22 Claims, 37 Drawing Sheets**